

GENERAL STRUCTURAL NOTES

GENERAL

1. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ALL OTHER DRAWINGS. CONTRACTOR SHALL COORDINATE THE WORK OF OTHER TRADES INCLUDING, BUT NOT LIMITED TO, THE REQUIREMENTS FOR SLEEVES, INSERTS, HOLES, HANGERS AND ANCHORS.
2. CONTRACTOR SHALL REPORT DISCREPANCIES IN DIMENSIONS BETWEEN DIFFERENT DRAWINGS TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING WORK IN AREAS THAT WILL BE AFFECTED.
3. DETAILS ENTITLED OR NOTED AS "TYPICAL" APPLY NOT ONLY WHERE SPECIFICALLY INDICATED OR REFERENCED , BUT ALSO IN ALL OTHER CASES WHERE THE NATURE OF THE CONSTRUCTION REQUIRES THEIR USE. DETERMINE APPLICABILITY OF TYPICAL DETAILS FROM DESCRIPTIVE TITLES OR FROM THE SIMILARITY OF A CONSTRUCTION CONDITION TO ANOTHER CONDITION WHERE THE DETAIL IS SPECIFICALLY INDICATED OR REFERENCED.
4. ELEVATIONS ON THE STRUCTURAL DRAWINGS ARE DENOTED AS (+X'-X"), REFERENCED TO THE FINISHED FIRST FLOOR ELEVATION DATUM = ±0'-0". FOR ACTUAL FINISHED FIRST FLOOR ELEVATION (N.G.V.D.) REFER TO SURVEY.
5. ALL ITEMS SHOWN IN THESE DRAWINGS ARE NEW CONSTRUCTION UNLESS SPECIFICALLY NOTED AS EXISTING.
6. IF ANY ERRORS OR OMISSIONS APPEAR IN THE DRAWINGS, SPECIFICATIONS, OR OTHER DOCUMENTS, THE CONTRACTOR MUST NOTIFY THE ARCHITECT AND ENGINEER, IN WRITING, OF THE SAME PRIOR TO PROCEEDING WITH THE WORK IN QUESTION IN THE EVENT THAT THE CONTRACTOR FAILS TO GIVE NOTICE, OR PROVIDE SUFFICIENT TIME FOR A RESPONSE, CONTRACTOR IS RESPONSIBLE FOR THE RESULTS OF SUCH ERRORS OR OMISSIONS, AND FOR ALL COSTS FOR RECTIFYING SAME AND FOR ANY DELAYS OR ANY OTHER COSTS INCURRED BY SAME. THE CONTRACTOR SHALL USE THE STRUCTURAL DRAWINGS TOGETHER WITH THE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS TO LOCATE DEPRESSED SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, OPENINGS, REGLETS, BOLT SETTINGS, SLEEVES, DIMENSIONS, EMBEDDED PLATES, ETC.

DESIGN CRITERIA

STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE FOLLOWING CODES AND SPECIFICATIONS:

1. 2023 FLORIDA BUILDING CODE (FBC), 8TH EDITION
 2. ASCE 7-22, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
 3. ACI 318-19, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
 4. ADM1-2020 ALUMINUM DESIGN MANUAL 2020 EDITION.
 5. AWS D1.2 STRUCTURAL WELDING CODE-ALUMINUM
 6. IN THE EVENT OF CONFLICT BETWEEN PERTINENT CODES AND REGULATIONS AND THE REQUIREMENTS OF THE REFERENCED STANDARDS OF THESE SPECIFICATIONS, THE PROVISIONS OF THE MORE STRINGENT SHALL GOVERN.
 7. DESIGN LOAD
- RAILING LOADS:
- CONCENTRATE LOAD OF 200 # IN ANY DIRECTION AT ANY PLACE OF THE TOP.
 - DISTRIBUTED LOAD OF 50 PLF AT TOP MEMBER

ALUMINUM:

1. STRUCTURAL ALUMINUM SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
 - A) SQUARE & RECTANGLE TUBES.....(6061-T6)
 - B) WELDING ELECTRODES.....(5356 FILLER)
2. BOLT HOLES SHALL NOT BE CUT OR ENLARGED BY FLAME CUTTING IN THE FIELD.
3. ANCHOR BOLTS SHALL BE HOT DIPPED GALVANIZED (G60 MINIMUM GALVANIZED COATING) OR 300 SERIES STAINLESS STEEL.
4. ALUMINUM SHALL NOT BE PLACED IN DIRECT CONTACT WITH CONCRETE UNLESS EFFECTIVELY COATED OR COVERED TO PREVENT ALUMINUM-CONCRETE REACTION AND ELECTROLYTIC ACTION BETWEEN ALUMINUM AND STEEL.
5. ANY CHANGES TO THE MODEL CONFIGURATION WILL VOID THIS DESIGN AND SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
6. ALL DIMENSIONS, HEIGHTS AND SPACING OF STRUCTURAL ALUMINUM FRAMING IS APPROXIMATE. STEEL FABRICATOR SHALL FOLLOW THE LAYOUT SHOWN AND SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB SITE AND IMMEDIATELY NOTIFY THE ENGINEERS OF ANY DISCREPANCIES BEFORE COMMENCING WORK. OR THE CONTRACTOR/ BUILDER SHALL ACCEPT FULL RESPONSIBILITY FOR ANY ERRORS OR OMISSIONS. (DO NOT SCALE DRAWINGS).
7. CARE SHOULD BE TAKEN TO PREVENT CHIPPING AND/OR SCRATCHING OF ANY PAINTED COMPONENTS OR CONNECTIONS DURING INSTALLATION. DAMAGE OF THE PAINTED SURFACES WILL RESULT IN PRE-MATURE CORROSION OF THE STRUCTURE AND ITS CONNECTIONS.

SHORING, RESHORING AND TEMPORARY BRACING

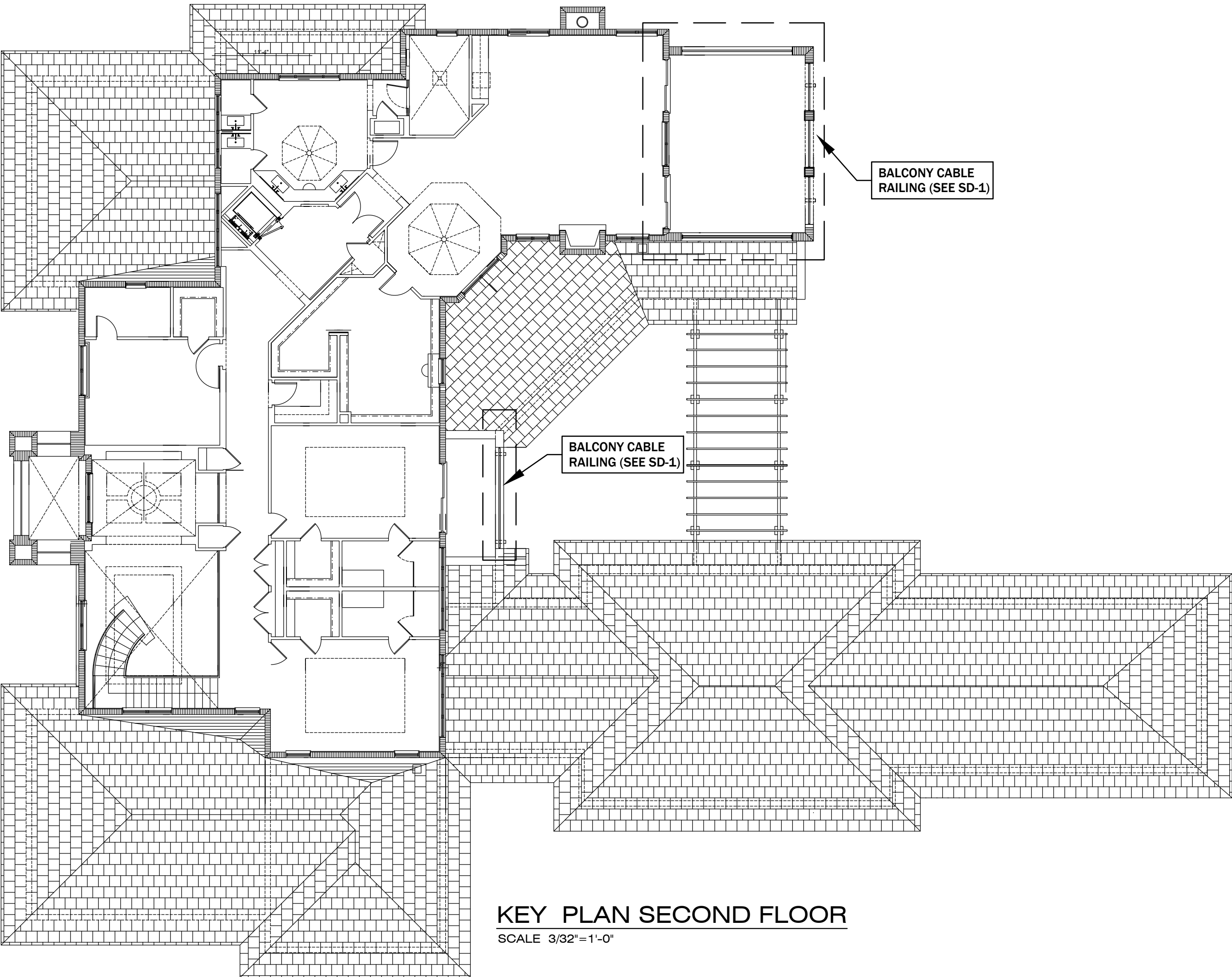
1. THE GENERAL CONTRACTOR (GC) IS SOLELY RESPONSIBLE FOR FIELD FORMWORK, SHORING, RESHORING, TEMPORARY AND PERMANENT BRACING DESIGN.

SAFETY OSHA AND LABOR LAWS

THE STRUCTURAL ENGINEER OF RECORD DOES NOT POSSES NOR PRESUMES TO POSSES ANY KNOWLEDGE OR EXPERTISE IN MATTERS TO JOB SITE EMPLOYEE SAFETY, OSHA OR LABOR LAW REQUIREMENTS FOR A CONSTRUCTION PROJECT. SAFETY AND COMPLIANCE WITH OSHA AND LABOR LAWS ARE THE ABSOLUTE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND HIS CONSULTANTS TO ADDRESS THESE MATTERS. THE STRUCTURAL ENGINEER OF RECORD SPECIALIZES IN STRUCTURAL DESIGN ONLY. THE BOARD OF PROFESSIONAL REGULATION FORBIDS HIM FROM ASSUMING RESPONSIBILITY OUTSIDE HIS AREA OF EXPERTISE.

STAINLESS STEEL CABLE NOTES:

1. STAINLESS STEEL CABLE USE FOR THE RAILING DESIGN, GRADE SS 316 1/4"ø WIRE ROPE 7x19 STRAND CORE WITH YIELD STRENGTH OF 50KSI AND ELASTICITY MODULUS OF 28000 KSI.



Revisions:		
No.	Description	Date
	PERMIT SET	

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SEAL: **VICTOR RAMOS**
P.E. - 87496

PROJECT: ALUMINUM CABLE RAILING
SHOP DRAWINGS

OWNER: _____

ADDRESS: 9601 SW 67th AVENUE - PINECREST, FL 33156

JOB No.:	
SCALE:	AS SHOWN
DATE:	01/28/2026
DRAWN BY:	BC
CHECKED BY:	VR

SHEET NAME

**GENERAL
STRUCTURAL
NOTES & KEY
PLAN**

SHEET No.:

SD-0

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